



FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>	ATTY DOCKET NO. 372465-00102	SERIAL NO. 10/644,227
	APPLICANT TAFT III, Karl Milton et al.	
	FILING DATE August 19, 2003	GROUP <del>1745</del> 1746

U.S. PATENT DOCUMENTS							
EXAMINER INITIALS	CITE No.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE If appropriate
BFB	AA	3,282,875	11/01/1966	Connolly et al.	260	29.6	
	AB	4,320,224	03/16/1982	Rose et al.	528	125	
	AC	4,330,654	05/18/1982	Ezzell et al.	526	243	
	AD	4,419,486	12/06/1983	Rose	525	534	
	AE	4,625,000	11/25/1986	Chao et al.	525	534	
	AF	5,122,587	06/16/1992	Heinz et al.	528	126	
	AG	5,248,566	09/28/1993	Kumar et al.	429	19	
	AH	5,272,017	12/21/1993	Swathirajan et al.	429	33	
	AI	5,438,082	08/01/1995	Helmer-Metzmann et al.	522	149	
	AJ	5,547,551	08/20/1996	Bahar et al.	204	296	
	AK	5,547,777	08/20/1996	Richards	429	32	
	AL	5,599,614	02/04/1997	Bahar et al.	442	171	
	AM	5,635,041	06/03/1997	Bahar et al.	204	282	
	AN	5,716,727	02/10/1998	Savinell et al.	429	33	
	AO	5,766,787	06/16/1998	Watanabe et al.	429	33	
	AP	5,942,347	08/24/1999	Koncar et al.	429	30	
	AQ	5,958,354	09/28/1999	Thompson et al.	423	328.1	
	AS	6,042,958	03/28/2000	Denton et al.	429	30	
BFB	AT	6,045,935	04/04/2000	Ketcham et al.	429	30	



	AU	6,059,943	05/09/2000	Murphy et al.	204	296	
BFB	AV	6,096,449	08/01/2000	Fuglevand et al.	429	13	
	AW	6,099,988	08/08/2000	Savinell et al.	429	189	
	AX	6,248,469	06/19/2001	Formato et al.	429	41	
	AR	6,355,149	03/12/2002	Soczka-Guth et al.	204	296	
	AY	6,387,230	05/14/2002	Murphy et al.	204	296	
	AZ	6,387,556	05/14/2002	Fuglevand et al.	429	22	
	BA	6,509,441	01/21/2003	Kerres	528	391	
	BB	6,521,690	02/18/2003	Ross et al.	524	445	
	BC	6,552,135	04/22/2003	Schnurnberger et al.	525	536	
	BD	6,576,100	06/10/2003	Arcella et al.	204	296	
	BE	2002/91225	07/11/2002	McGrath et al.	528	170	9/20/2001
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BFB	BH	ADJEMIAN, K.T. et al.; "Silicon Oxide Nafion Composite Membranes for Proton-Exchange Membrane Fuel Cell Operation at 80-140°C", Journal of the Electrochemical Society, 149 (3) A256-A261 (2002)
BFB	BI	ARANDA, Pilar et al.; "Poly(ethylene oxide)/NH <sub>4</sub> <sup>+</sup> -smectite nanocomposites"; Applied Clay Science 15 (1999) 119-135
BFB	BJ	CHEN, Hsien-Wei et al.; "The novel polymer electrolyte nanocomposite composed of poly(ethylene oxide), lithium triflate and mineral clay"; Polymer 42 (2001) 9763-9769
BFB	BK	COSTAMAGNA, P. et al., "Nafion 115/zirconium phosphate composite membranes for operation of PEMFCs above 100°C"; Electrochimica Acta 47 (2002) 1023-1033
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BFB	BM	COSTAMAGNA, Paola et al.; "Quantum jumps in the PEMFC science and technology from the 1960s to the year 2000, Part II. Engineering, technology development and application aspects"; Journal of Power Sources 102 (2001) 253-269
BFB	BN	JUNG, Doo Hwan et al.; "A performance evaluation of direct methanol fuel cell using impregnated tetraethyl-orthosilicate in cross-linked polymer membrane"; International Journal of Hydrogen Energy 26 (2001) 1263-1269
BFB	BO	KAUR, S. et al.; "Cross-linking of sulfonated styrene-ethylene/butylene-styrene triblock polymer via sulfonamide linkages"; Polymer 43 (2002) 5163-5167
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BFB	BQ	KERRES, J. et al.; "Synthesis and characterization of polyaryl blend membranes having different composition, different covalent and /or ionic cross-linking density, and their application to DMFC"; Desalination 147 (2002) 173-178
BFB	BR	KIM, Yu Seung et al.; "Fabrication and characterization of heteropolyacid (H <sub>3</sub> PW <sub>12</sub> O <sub>40</sub> )/directly polymerized sulfonated poly(arylene ether sulfone) copolymer composite membranes for higher temperature fuel cell applications"; Journal of Membrane Science 212 (2003) 263-282
BFB	BS	KOBAYASHI, T. et al.; "Proton-conducting polymers derived from poly(ether-etherketone) and poly(4-phenoxybenzoyl-1,4-phenylene)"; Solid State Ionics 106 (1998) 219-225
BFB	BT	LIAO, Bing et al.; "Polymer-layered silicate nanocomposites. 1. A study of poly(ethylene oxide)/Na <sup>+</sup> - montmorillonite nanocomposites as polyelectrolytes and polyethylene-block-poly(ethylene glycol) copolymer/Na <sup>+</sup> - montmorillonite nanocomposites as fillers for reinforcement of polyethylene"; Polymer 42 (2001) 10007-10011
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BFB	BX	RUIZ-HITZKY, Eduardo et al.; "Proton conductivity in Al-montmorillonite pillared clays"; Solid State Ionics 85 (1996) 313-317
BFB	BY	SHIRAI, Masamitsu et al.; "Photo-assisted thermal crosslinking of polymers having imino sulfonate units"; Reactive & Functional polymers 37 (1998) 147-154
BFB	BZ	STATTI, P. et al.; "Hybrid Nafion-silica membranes doped with heteropolyacids for application in direct methanol fuel cells"; Solid State Ionics 145 (2001) 101-107
BFB	CA	STATTI, Pietro; "Proton conductive membranes based on silicotungstic acid/silica and polybenzimidazole"; Materials Letters 47 (2001) 241-246
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BFB	CG	YAO, K.J. et al.; "Polymer/layered clay nanocomposites: 2 polyurethane nanocomposites" Polymer 43 (2002) 1017-1020
BFB	CH	ZAIDI S.M.J., et al.; "Proton conducting composite membranes from polyether ether ketone and heteropolyacids for fuel cell applications"; Journal of Membrane Science 173 (2000) 17-34

EXAMINER <i>Bruce Bell</i>	DATE CONSIDERED <i>6-7-04</i>
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant	